

08/675,969  
Soft search

PATNO IS 5408832

DATE: APRIL 10, 1997

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PATNO IS 5408832

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For further explanation, press the H key (for HELP) and then the ENTER key.

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LEVEL 1 - 1 PATENT

1. ~~5,408,832~~ Apr. 25, 1995, Thermally insulating jacket and related process,  
Boffito, Claudio, Rho, Italy Schiabel, Antonio, Garbagnate, Italy Gallitognotta,  
Allessandro, Rho, Italy

Press Alt-H for Help or Alt-Q to Quit.

LEVEL 1 - 1 OF 1 PATENT

5,408,832

Apr. 25, 1995

Thermally insulating jacket and related process

~~REISSUE~~ Reissue Application filed Jul. 5, 1996 (O.G. Nov. 26, 1996) Ex. Gp.:  
3404; Re. S.N. 08/675,969

Press Alt-H for Help or Alt-Q to Quit.

5,408,832 OR 5408832

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18	1	US5408832/PN
19	1	US5408833/PN
20	1	US5408834/PN

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SS 1 RESULT (1)

SS 2?  
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(LEGSTAT)  
PATENT NUMBER US 5408832 [US5408832]  
DOCUMENT TYPE US-P  
ACTION 94.07.21 US/AE-A  
APPLICATION DATA (PATENT)  
{US 278129/94 [94US-278129] 94.07.21}  
95.04.25 US/A  
PATENT  
96.11.26 US/RF  
REISSUE APPLICATION FILED  
960705  
9649  
UPDATE

SS 2?  
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28 1 US5408832/PN  
29 1 US5408851/PN  
30 1 US5408876/PN

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SS 1 RESULT (1)

SS 2?  
prt full ind

[REDACTED]  
9648-001435  
ACCESSION NUMBER  
US5408832  
PATENT NUMBER  
A (UTILITY)  
DOCUMENT TYPE  
96.11.26  
OFFICIAL GAZETTE  
REA  
CODE  
REISSUE APPLICATION FILED

SUBJECT HEADING

REISSUE APPLICATION FILED

Set Items Description

PN=UJS 5408832W

DIALOG(R) File 345: Inpadoc/Fam. & Legal Stat.  
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12753041

Basic Patent (No,Kind,Date): IT 92501416 A0 920608 <No. of Patents: 012>

PATENT FAMILY:

CHINA (CN)

Patent (No,Kind,Date): CN 1080039 A 931229  
IMPROVED PROCESS FOR EVACUATING A THERMALLY INSULATING JACKET AND IN PARTICULAR THE JACKET OF A DEWAR OR OF ANOTHER CRYOGENIC DEVICE (English)

Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): CLAUDIO BOFFITO (IT); ANTONIO SCHIABEL (IT); ALESSANDRO GALLITOGNOTTA (IT)

Priority (No,Kind,Date): IT 92MI 1416 A 920608

Applic (No,Kind,Date): CN 92113646 A 921130

IPC: \* F16L-059/06

Derwent WPI Acc No: \* C 94-007661; C 94-007662

Language of Document: Chinese

Patent (No,Kind,Date): CN 1029154 B 950628

IMPROVED PROCESS FOR EVACUATING AND THERMALLY INSULATING JACKET AND IN PARTICULAR THE JACKET OF A DEWAR OR OF ANOTHER CRYOGENIC DEVICE (English)

Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): CLAUDIO BOFFITO (IT); SCHIABEL ANTONIO (IT); ALESSANDRO GALLITOGNOTTA (IT)

Priority (No,Kind,Date): IT 92MI 1416 A 920608; US 278129 A 940721

Applic (No,Kind,Date): CN 92113646 A 921130

IPC: \* F16L-059/06

Derwent WPI Acc No: \* C 94-007661; C 94-007662

Language of Document: Chinese

GERMANY, FEDERAL REPUBLIC (DE)

Patent (No,Kind,Date): DE 69304701 C0 961017

EVAKUIERTER WAERMEDAEMLTEL, INSBESONDRE EIN MANTEL EINES DEWARGEFAESSES ODER EINER ANDEREN KRYOENVORRICHTUNG (German)

Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT); GALLITOGNOTTA ALESSANDRO (IT)

Priority (No,Kind,Date): IT 92MI 1416 A 920608; WO 92IT141 W 921109; WO 93IT7 W 930201

Applic (No,Kind,Date): DE 69304701 A 930201

IPC: \* F17C-003/08; F16L-059/06; C22C-024/00

Derwent WPI Acc No: \* C 94-007661; C 94-007662

Language of Document: German

Patent (No,Kind,Date): DE 69304701 T2 970130

EVAKUIERTER WAERMEDAEMLTEL, INSBESONDRE EIN MANTEL EINES DEWARGEFAESSES ODER EINER ANDEREN KRYOENVORRICHTUNG (German)

Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT); GALLITOGNOTTA ALESSANDRO (IT)

Priority (No,Kind,Date): IT 92MI 1416 A 920608, WO 92IT141 W 921109; WO 93IT7 W 930201  
Applic (No,Kind,Date): DE 69304701 A 930201  
IPC: \* F17C-003/08; F16L-059/06; C22C-024/00  
Derwent WPI Acc No: \* C 94-007661; C 94-007662  
Language of Document: German

**GERMANY, FEDERAL REPUBLIC (DE)**

**DE 69304701 P 961017 DE REF CORRESPONDS TO (ENTSPRICHT)**  
EP 644993 P 961017  
**DE 69304701 P 970130 DE 8373 TRANSLATION OF PATENT DOCUMENT**  
OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN  
PUBLISHED (UEBERSETZUNG DER PATENTSCHRIFT  
DES EUROPÄISCHEN PATENTES IST EINGEGANGEN  
UND VEROEFFENTLICHT WORDEN)

**EUROPEAN PATENT OFFICE (EP)**

Patent (No,Kind,Date): EP 644993 A1 950329  
PROCESS FOR EVACUATING A THERMALLY INSULATING JACKET, IN PARTICULAR THE  
JACKET OF A DEWAR OR OF ANOTHER CRYOGENIC DEVICE. (English; French;  
German)

Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT);  
GALLITOGNOTTA ALESSANDRO (IT)

Priority (No,Kind,Date): WO 93IT7 W 930201; IT 92MI 1416 A 920608; WO 92IT141 A 921109; US 278129 A 940721

Applic (No,Kind,Date): EP 93903295 A 930201

Designated States: (National) BE; DE; FR; GB; IT; NL; SE

IPC: \* F17C-003/08; F16L-059/06; C22C-024/00

Derwent WPI Acc No: \* C 94-007661; C 94-007662

Language of Document: English

Patent (No,Kind,Date): EP 644993 B1 960911  
EVACUATED THERMALLY INSULATING JACKET, IN PARTICULAR THE JACKET OF A  
DEWAR OR OF ANOTHER CRYOGENIC DEVICE (English; French; German)

Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT);  
GALLITOGNOTTA ALESSANDRO (IT)

Priority (No,Kind,Date): WO 93IT7 W 930201; IT 92MI 1416 A 920608; WO 92IT141 A 921109; US 278129 A 940721

Applic (No,Kind,Date): EP 93903295 A 930201

Designated States: (National) BE; DE; FR; GB; IT; NL; SE

IPC: \* F17C-003/08; F16L-059/06; C22C-024/00

Derwent WPI Acc No: \* C 94-007661; C 94-007662

Language of Document: English

**EUROPEAN PATENT OFFICE (EP)**

**EP 644993 P 920608 EP AA PRIORITY (PATENT APPLICATION)**  
(PRIORITAET (PATENTANMELDUNG))  
IT 92MI 1416 A 920608  
**EP 644993 P 921109 EP AA PRIORITY (PATENT APPLICATION)**  
(PRIORITAET (PATENTANMELDUNG))  
WO 92IT141 A 921109  
**EP 644993 P 930201 EP AA PCT-APPLICATION (PCT-ANMELDUNG)**  
WO 93IT7 W 930201  
**EP 644993 P 930201 EP AE EP-APPLICATION (EUROPÄISCHE**  
ANMELDUNG)  
EP 93903295 A 930201

EP 644993	P	940721	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG)) US 278129 A 940721
EP 644993	P	950329	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN) BE DE FR GB IT NL SE
EP 644993	P	950329	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 644993	P	950329	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 941015
EP 644993	P	950913	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 950728
EP 644993	P	960515	EP ITF	IT: TRANSLATION FOR A EP PATENT FILED (IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO) SOCIETA' ITALIANA BREVETTI S.P.A.
EP 644993	P	960911	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN) BE DE FR GB IT NL SE
EP 644993	P	960911	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 644993	P	961017	EP REF	CORRESPONDS TO: (ENTSPRICHT) DE 69304701 P 961017
EP 644993	P	961031	EP ET	FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)

#### ITALY (IT)

Patent (No,Kind,Date): IT 1258958 A 960311  
 PROCESSO PERFEZIONATO PER LA REALIZZAZIONE DI INTERCAPEDINI  
 TERMICAMENTE ISOLANTI MEDIANTE VUOTO E MATERIALI COIBENTI (Italian)  
 Patent Assignee: GETTERS SPA  
 Author (Inventor): BOFFITO CLAUDIO; SCHIABEL ANTONIO  
 Priority (No,Kind,Date): IT 92MI 1416 A 920608; US 278129 A  
 940721  
 Aplic (No,Kind,Date): IT 92MI 1416 A 920608  
 IPC: \* E04B  
 Derwent WPI Acc No: \* C 94-007661; C 94-007662  
 Language of Document: Italian  
 Patent (No,Kind,Date): IT 92501416 A0 920608  
 PROCESSO PERFEZIONATO PER LA REALIZZAZIONE DI INTERCAPEDINI  
 TERMICAMENTE ISOLANTI MEDIANTE VUOTO E MATERIALI COIBENTI (Italian)  
 Patent Assignee: GETTERS SPA (IT)  
 Author (Inventor): BOFFITO CLAUDIO; SCHIABEL ANTONIO; GALLITOGNOTTA  
 ALESSANDRO  
 Priority (No,Kind,Date): IT 92MI 1416 A 920608  
 Aplic (No,Kind,Date): IT 92MI 1416 A 920608  
 Derwent WPI Acc No: \* C 94-007661; C 94-007662  
 Language of Document: Italian

#### JAPAN (JP)

Patent (No,Kind,Date): JP 7507490 T2 950824  
 Priority (No,Kind,Date): WO 93IT7 W 930201; IT 92MI 1416 A  
 920608; WO 92IT141 A 921109; US 278129 A 940721  
 Aplic (No,Kind,Date): JP 93501324 A 930201

IPC: \* B01J-019/00; F16L-059/06; F17C-003/08  
Derwent WPI Acc No: \* C 94-007661; C 94-007662  
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5408832 A 950425  
THERMALLY INSULATING JACKET AND RELATED PROCESS (English)  
Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT);  
GALLITOGNOTTA ALESSANDRO (IT)  
Priority (No,Kind,Date): US 278129 A 940721; WO 93IT7 W 930201;  
WO 92IT141 A 921109; IT 92MI 1416 A 920608; US 38643 B2  
930329; US 979326 B1 921120  
Applic (No,Kind,Date): US 278129 A 940721  
National Class: \* 062451000; 062046200; 062051100  
IPC: \* F17C-001/00  
Derwent WPI Acc No: \* C 94-007661; C 94-007662  
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):  
US 5408832 P 920608 US AA PRIORITY (PATENT)  
IT 92MI 1416 A 920608  
US 5408832 P 921109 US AA PRIORITY (PATENT)  
WO 92IT141 A 921109  
US 5408832 P 921120 US AA PRIORITY  
US 979326 B1 921120  
US 5408832 P 930201 US AA PCT-APPLICATION (PCT-APPL.)  
WO 93IT7 W 930201  
US 5408832 P 930329 US AA PRIORITY  
US 38643 B2 930329  
US 5408832 P 940721 US AE APPLICATION DATA (PATENT)  
(APPL. DATA (PATENT))  
US 278129 A 940721  
US 5408832 P 950425 US A PATENT  
US 5408832 P 961126 US RF REISSUE APPLICATION FILED  
(REISSUE APPL. FILED)  
960705

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9325842 A1 931223  
PROCESS FOR EVACUATING A THERMALLY INSULATING JACKET IN PARTICULAR THE  
JACKET OF A DEWAR OR OF ANOTHER CRYOGENIC DEVICE (English)  
Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT);  
GALLITOGNOTTA ALESSANDRO (IT)  
Priority (No,Kind,Date): IT 92MI 1416 A 920608  
Applic (No,Kind,Date): WO 92IT141 A 921109  
Designated States: (National) JP; KR; RU (Regional) AT; BE; CH; DE;  
DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; SE  
Filing Details: WO 100000 With international search report  
IPC: \* F17C-003/08; F16L-059/06; C22C-024/00  
Derwent WPI Acc No: ; C 94-007661  
Language of Document: English  
Patent (No,Kind,Date): WO 9325843 A1 931223  
PROCESS FOR EVACUATING A THERMALLY INSULATING JACKET, IN PARTICULAR THE  
JACKET OF A DEWAR OR OF ANOTHER CRYOGENIC DEVICE (English)  
Patent Assignee: GETTERS SPA (IT)  
Author (Inventor): BOFFITO CLAUDIO (IT); SCHIABEL ANTONIO (IT);  
GALLITOGNOTTA ALESSANDRO (IT)

Priority (No,Kind,Date): IT 92MI 1416 A 920608; WO 92IT141 A 921109  
Applc (No,Kind,Date): WO 93IT7 A 930201  
Designated States: (National) JP; KR; RU (Regional) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE  
Filing Details: WO 100000 With international search report  
IPC: \* F17C-003/08; F16L-059/06; C22C-024/00  
Derwent WPI Acc No: ; C 94-007662  
Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Regd. Status No,Type,Date,Code,Text):

WO 9325842	P	920608	WO AA	PRIORITY (PATENT) IT 92MI 1416 A 920608
WO 9325842	P	921109	WO AE	APPLICATION DATA (APPL. DATA)
WO 9325842	P	931223	WO 92IT141 A 921109	WO AK DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) JP KR RU
WO 9325842	P	931223	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
WO 9325842	P	931223	WO A1	AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9325842	P	940330	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9325842	P	941123	WO 122	EP: PCT APP. NOT ENT. EUROP. PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE EING.)
WO 9325843	P	920608	WO AA	PRIORITY (PATENT) IT 92MI 1416 A 920608
WO 9325843	P	921109	WO AA	PRIORITY (PATENT) WO 92IT141 A 921109
WO 9325843	P	930201	WO AE	APPLICATION DATA (APPL. DATA)
WO 9325843	P	931223	WO 93IT7 A 930201	WO AK DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) JP KR RU
WO 9325843	P	931223	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT) AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
WO 9325843	P	931223	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)

WO 9325843 P 940120 WO DFPE REQUEST FOR PRELIMINARY  
EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH  
MONTH FROM PRIORITY DATE

WO 9325843 P 940330 WO 121 EP: PCT APP. ART. 158 (1) (EP:  
PCT ANM. ART. 158 (1))